FIG. 1

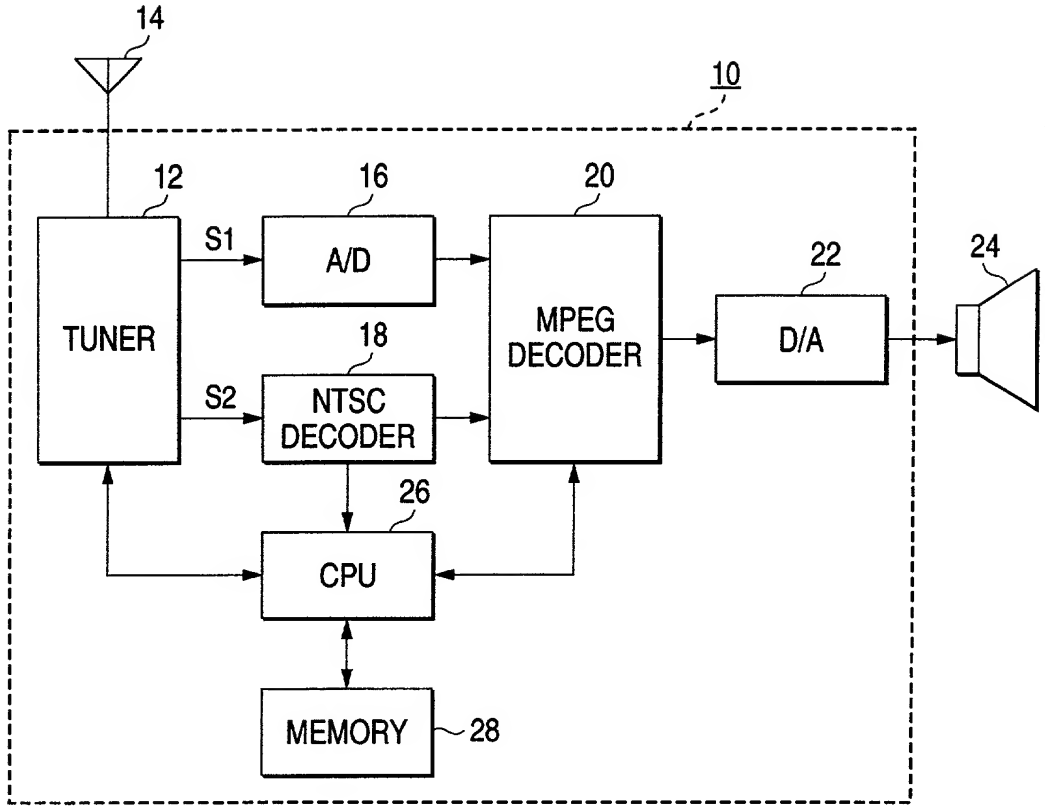


FIG. 2

VIRTUAL CHANNEL TABLE

MAJOR NUMBER	MINOR NUMBER	CARRIER FREQUENCY (MHz)	SIGNAL TYPE
12	0	205.25	ANALOG
12	1	620.31	DIGITAL
12	5	620.31	DIGITAL
12	12	620.31	DIGITAL
12	31	620.31	DIGITAL

FIG. 3

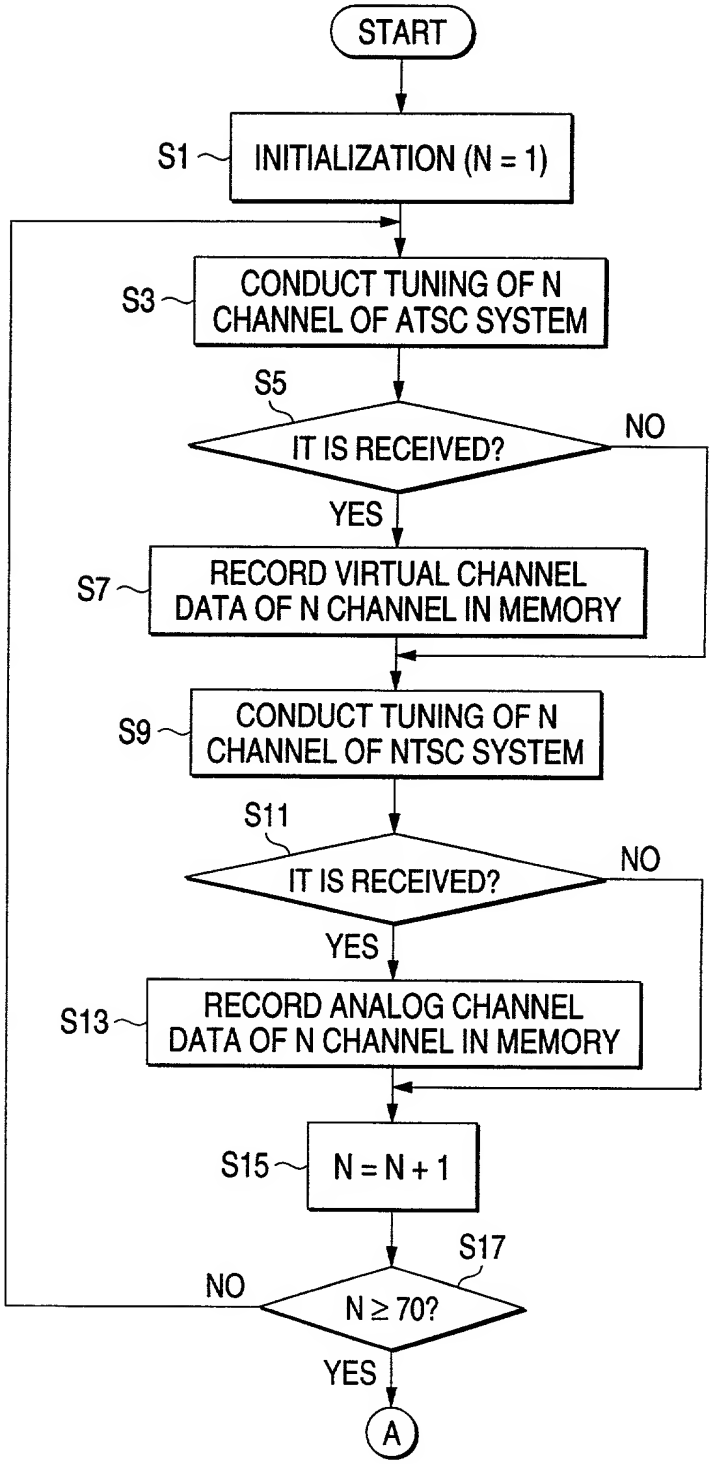
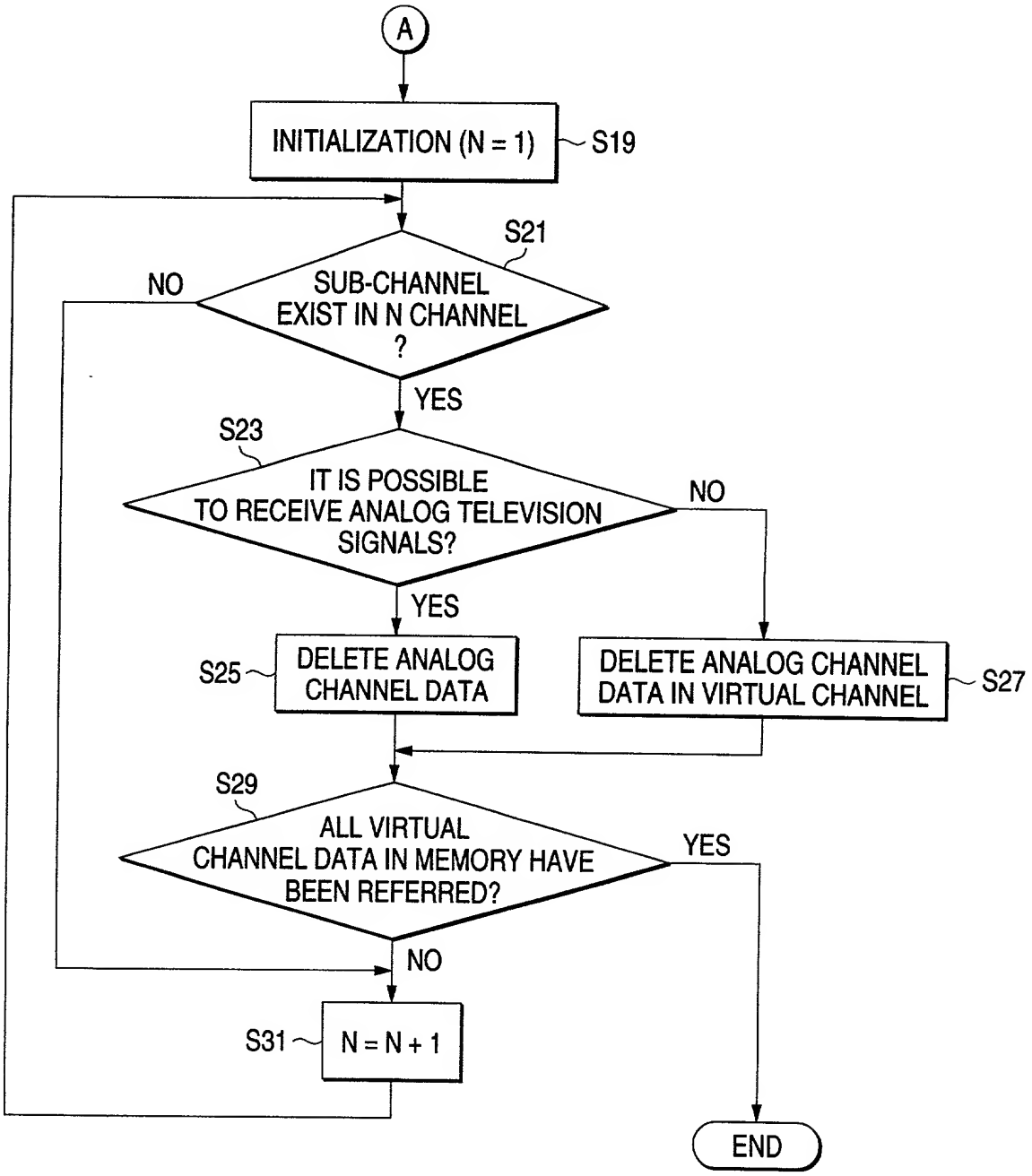

START
S1
INITIALIZATION (N = 1)
S3
CONDUCT TUNING OF N CHANNEL OF ATSC SYSTEM
S5
IT IS RECEIVED?
NO
YES
S7
RECORD VIRTUAL CHANNEL DATA OF N CHANNEL IN MEMORY
S9
CONDUCT TUNING OF N CHANNEL OF NTSC SYSTEM
S11
IT IS RECEIVED?
NO
YES
S13
RECORD ANALOG CHANNEL DATA OF N CHANNEL IN MEMORY
S15
N = N + 1
S17
N ≥ 70?
NO
YES
A

FIG. 4


A
INITIALIZATION (N = 1)
S19
S21
SUB-CHANNEL EXIST IN N CHANNEL ?
NO
YES
S23
IT IS POSSIBLE TO RECEIVE ANALOG TELEVISION SIGNALS?
NO
YES
S25
DELETE ANALOG CHANNEL DATA
DELETE ANALOG CHANNEL DATA IN VIRTUAL CHANNEL
S27
S29
ALL VIRTUAL CHANNEL DATA IN MEMORY HAVE BEEN REFERRED?
YES
NO
S31
N = N + 1
END